

# Conductive Carbon Paste Ink

DH-301A electrically conductive printing ink is made from the special resin material and carbon, it complies with the environmental-protection standard of ROHS , the product features good heat-resistance, moisture-resistance, solvent resistance and good printing performance,. It's good for remote control and rigid boards.

## I. Technical Specifications:

1. Color: Black
2. Content of solid matter: 65%-85% (excluding diluent printing ink)
3. Viscosity: 30-300Pa.s (20°C, VT-04E)
4. Density: 1.09kg/L
5. Resistance Value:  $\cong$  (18 $\Omega$ /□25 $\mu$ m)
6. Adhesion: 100/100
7. Rigidity:  $\cong$  4H
8. Heat Resistance: (95°C,1000hr rate of change of resistance)  $\pm$ 0%
9. Moisture Resistance: (40°C,95%RH,1000hr rate of change of resistance)  $\pm$ 0%
10. Solder Heat Resistance: (Common type: 270°C, 5 secs/2 times, high temperature resistance type: 280°C, 6 secs/3 times)

## II. Application and Usage:

1. Applicable to the silk screen printing of lacquer carbon line, keys and crossover lines.
2. Please mix it equably and completely before using.
3. The printing surface should be clean. If there is acid liquor, grease, oxide, thermoplastic resin, sweat or other pollutants on the surface, it shall greatly reduce the adhesion and electric performance.

## III. Printing:

1. Use 40-100T polyester silk screen or stainless steel screen with the spreading of 60-80 degrees, the viscosity of printing ink should be controlled in the range of 200~300Pa.s.
2. In order to ensure the consistent performance of printed carbon film, the carbon plasm on the screen should be kept consistently. When diluting, it should collect the printing ink and mix with the new carbon plasm and then add a proper amount of CCI-301X or thinner, mix them equably and completely.
3. Use the ethylene glycol monobutyl ether, cyclohexanone or butanone to clean the screen board.

IV. Conditions of Solidification:

baking oven	150°C, 40 minutes
IR Channel	180°C, 5-8 minutes

V. Storage: the carbon plasm should be stored in low temperature environment. ( under 20°C)

## VI. Safety Precautions:

As the carbon plasm is made of resin, solvent and carbon powder, so please keep it away from the fire sources. And keep the working environment ventilated. If it touches your skin or eyes, please use water or soap water to clean and wash thoroughly.